

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
25 August 2005 (25.08.2005)

PCT

(10) International Publication Number  
**WO 2005/078979 A3**

(51) International Patent Classification:  
*H04L 29/06* (2006.01)

(21) International Application Number:

PCT/GB2005/000386

(22) International Filing Date: 4 February 2005 (04.02.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

GB 0402654.8

6 February 2004 (06.02.2004)

GB

(71) Applicant (for all designated States except US): **OR-ANGE SA** [FR/FR]; TMM 24e Floor, 6 Place d'Alleray, F-75505 Paris Cedex 15 (FR).

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **CHEN, Xiaobao** [CN/GB]; 17 Beech Drive, Swindon SN5 5DQ (GB).

(74) Agents: **CROSS, James, P. A.** et al.; R.G.C. Jenkins & CO., 26 Caxton Street, London SW1H 0RJ (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

Published:

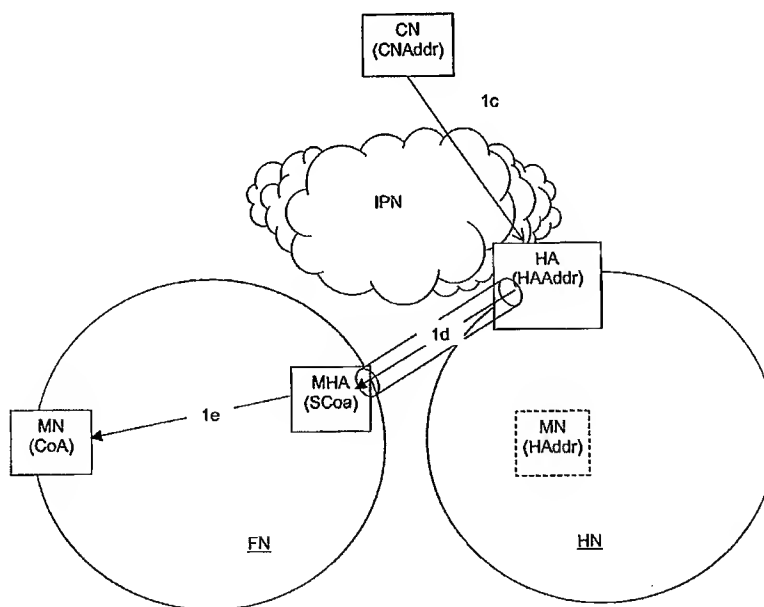
— with international search report

(88) Date of publication of the international search report:

18 January 2007

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TELECOMMUNICATIONS



(57) Abstract: In a MIPv6 network, a mobile home agent (MHA) in a foreign network (FN) acts as an intermediate node between a mobile node (MN) and a correspondent node (CN) and allocates itself a secondary care-of address (SCoA) different from the care-of address (CoA) of the mobile node (MN), with a one-to-one relationship between the secondary care-of address (SCoA) and the home address (HAddr) of the mobile node.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2005/000386

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H04L29/06

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	HESHAM SOLIMAN ET AL: "Hierarchical Mobile IPv6 mobility management (HMIPv6) <draft-ietf-mobileip-hmipv6-08.txt>" IETF STANDARD-WORKING-DRAFT, INTERNET ENGINEERING TASK FORCE, IETF, CH, vol. mobileip, no. 8, June 2003 (2003-06), XP015002676 ISSN: 0000-0004 abstract	1-4, 9-11, 14-16, 18-24
Y	page 3 - page 7  ----- -/--	5-8,12, 13,17

☒ Further documents are listed in the continuation of box C.

☐ Patent family members are listed in annex.

## \* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"Z" document member of the same patent family

Date of the actual completion of the international search

27 May 2005

Date of mailing of the international search report

03/06/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel: (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Blanco Cardona, P

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2005/000386

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PERKINS C ET AL: "Route Optimization in Mobile IP. draft-ietf-mobileip-optim-09.txt" IETF MOBILE IP WORKING GROUP. INTERNET-DRAFT, 15 February 2000 (2000-02-15), XP002151964 abstract	1,10
Y	page 3, paragraph 1 - page 4, paragraph 2  -----	5-8,12, 13,17